

WHAT IS CLAIMED IS:

1. A preimpregnated main fabric (1, 1') provided with reinforcement (2) having a bottom face (F') impregnated with a first thermosetting matrix (5) and a top face (F)
5 impregnated with a second thermosetting matrix (6), wherein said first and second thermosetting matrices (5 and 6) have different physico-chemical and rheological properties, said first thermosetting matrix (5) presenting self-adhesive properties and said second
10 thermosetting matrix (6) presenting non-self-adhesive properties.
2. A preimpregnated main fabric according to claim 1, wherein at least one of said top and bottom faces (F, F')
15 includes mistake-proofing means.
3. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises a dye.
- 20 4. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises a separator sheet (11) arranged on said top face (F).
5. A preimpregnated main fabric according to claim 2,
25 wherein said mistake-proofing means comprises a separator sheet arranged on said bottom face (F').
6. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises first and
30 second removable separator sheets (11', 11'') that are different from each other, and that cover said top and bottom faces (F, F') respectively.
7. A sandwich composite structure (S) provided with a
35 foam or honeycomb core (3) arranged between a top skin (4) and a bottom skin (4'), wherein a first ply of a preimpregnated main fabric (1) according to claim 1 is

arranged between the core (3) and the top skin (4), and wherein a second ply of the preimpregnated main fabric (1') is arranged between the core (3) and the bottom skin (4'), the self-adhesive first thermosetting matrix (5) of each of said first and second plies (1, 1') of preimpregnated main fabric coming into contact with the core (3).

8. A sandwich composite structure according to claim 7, wherein the non-self-adhesive second matrix (6) of the first and second plies (1, 1') of the preimpregnated main fabric is identical to the matrix of the non-self-adhesive secondary fabrics of the top and bottom skins (4, 4').